



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/029,774 | 12/20/2001 | Damien R. Forkner | 10012176-1 | 5672 |

7590 08/01/2005

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER

VO, LILIAN

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2195

DATE MAILED: 08/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/029,774

Applicant(s)

FORKNER ET AL.

Examiner

Lilian Vo

Art Unit

2195

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 May 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 - 26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

10

DETAILED ACTION

1. Claims 1 – 26 are pending.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1 – 11 are rejected under 35 U.S.C. 101 because they are directed to non-statutory subject matter.

4. The system of **claims 1 - 11** does not define any specific hardware. Therefore, the system is not tangible embodied in a manner so as to be executable.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1 – 3, 6 – 9, 12 – 14, 16 – 18, 21, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kalajan et al. (US 5,935,212, hereinafter Kalajan) in view of Hoffman (US 6,553,363).

7. Regarding **claim 1**, Kalajan discloses a server (fig. 4: 50) comprising:

an application (col. 4, lines 6 – 39), the application comprising:

a persistent process that generates dynamic and interactive HTML content for the application (col. 4, lines 6 – 21, fig. 4: 56 – 58, col. 6, lines 46 – 51: CGI program on the server could call the proxy socket applications directly to implement an HTML based email client); and

a plurality of transient processes, wherein each transient process is launched to handle a client request from a client by parsing the client request, forwarding the client request to the persistent process, capturing a result from the persistent process and forwarding the result to the client (col. 4, lines 6 – 15, 29 – 33).

With respect to the step of generating a dynamic and interactive HTML content, Kalajan discloses that CGI program on the server could call the proxy socket applications directly to implement an HTML based email client (col. 6, lines 46 - 51). Thus, it would have been obvious to one of an ordinary skill in the art, at the time the invention was made, that Kalajan's system is capable of generating a dynamic and interactive HTML content as claimed. Furthermore, Hoffman discloses the concept of generating a dynamic and interactive HTML content in which a dynamic HTML pages may be created using JavaScript to process user input and maintain persistent data using special objects, files, and relational databases (col. 2, lines 29 – 53, col. 8, lines 38 – 49). Therefore, it would have been obvious for one of an ordinary skill in the art, at the time the invention was made, to incorporate the concept from Hoffman together with Kalajan to provide a dynamic and interactive HTML content as necessary to fulfill client's requests.

8. Regarding **claim 2**, as modified Kalajan discloses the persistent process utilizes a support process outside the server (Kalajan: fig. 4: 56 – 58, fig. 5A: 86, col. 5, lines 15 – 23).

9. Regarding **claim 3**, as modified Kalajan discloses the transient processes implement a CGI (Kalajan: col. 4, lines 6 – 12).

10. Regarding **claim 6**, as modified Kalajan discloses that each of the plurality of transient processes terminates after forwarding the result to the client (Kalajan: fig. 5A: 74, col. 4, lines 20 – 22 and 65 - 67).

11. Regarding **claim 7**, as modified Kalajan discloses when a first client sends a file request for a file, a first transient process obtains and forwards the file to the first client (Kalajan: col. 3, lines 15 – 17: reading email, lines 58 – 61: primitives such as “connect”, “read” data, “write” data and “close”. Col. 4, lines 6 – 23).

12. Regarding **claim 8**, as modified Kalajan discloses when a first client sends a file request for a file, a first transient process, after verifying access to the file, obtains and forwards the file to the first client (Kalajan: col. 3, lines 7 – 15: using http with the secure socket layer to provide secure data transmissions. Col. 3, lines 15 – 17: reading email, lines 58 – 61: primitives such as “connect”, “read” data, “write” data and “close”. Col. 4, lines 6 – 23).

13. Regarding **claim 9**, as modified Kalajan discloses the plurality of transient processes communicate with the persistent process via interprocess communication (IPC) (Kalajan: col. 3, lines 19 – 20).

14. **Claims 12 – 14, 16 – 18, 21, 23 and 24** are rejected on the same ground as stated in claims 1 – 3 and 6 - 8 above.

15. Claims 4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kalajan et al. (US 5,935,212) in view of Hoffman (US 6,553,363), as applied claims 1, 12 and 21 above, in view of Challenger et al. (US 6,026,413, hereinafter Challenger).

16. Regarding **claims 4 and 11**, as modified Kalajan did not clearly disclose the persistent process includes or uses a queue for the request. Nevertheless, Challenger discloses the uses of a queue for storing the incoming requests (fig. 33a, 33B and 34). It would have been obvious for one of an ordinary skill in the art, at the time the invention was made, to incorporate this feature to modified Kalajan's system so that incoming requests can be queued as they are waiting to be serviced fairly in the order they were received.

17. **Claims 20 and 26** are rejected on the same ground as stated in claims 4 and 11 above.

18. Claims 5 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kalajan et al. (US 5,935,212) in view of Hoffman (US 6,553,363), as applied to claims 1, 12 and 21 above, in view of Hockey (US Pat. Application Publication 2004/0064515).

19. Regarding **claims 5 and 10**, as modified Kalajan did not clearly disclose the persistent process performs background processing when there are no pending client requests, including look-ahead caching. Nevertheless, Hockey discloses the step of performing background tasks including looking in the cache when there are no more messages waiting to be serviced (page 6, paragraph 104). It would have been obvious for one of an ordinary skill in the art, at the time the

Art Unit: 2195

invention was made to incorporate Hockey's teaching with modified Kalajan's to perform other tasks while waiting so that resource can be utilized instead of being wasted and/or idle.

20. **Claims 15, 19, 22 and 25** are rejected on the same ground as stated in claims 5 and 10 above.

Response to Arguments

21. Applicant's arguments with respect to claims 1, 12 and 21 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

22. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 2195

23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lilian Vo whose telephone number is 571-272-3774. The examiner can normally be reached on Monday - Thursday, 7:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist at 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lilian Vo
Examiner
Art Unit 2195

lv
July 25, 2005

MAJID BANANKHAH
PRIMARY EXAMINER